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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,495	10/16/2003	Daisuke Kitazawa	244077US90	5366
22850 ODLONI SDIV	OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314		EXAMINER	
1940 DUKE S'			MURPHY, RHONDA L	
ALEXANDRIA			ART UNIT	PAPER NUMBER
			2616	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Cummons	10/685,495	KITAZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rhonda Murphy	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication.				
Status						
. 1)⊠ Responsive to communication(s) filed on 08 Au	iaust 2007					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
·						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on 16 October 2003 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b) Some * c) None of: 1.⊠ Certified copies of the priority documents have been received.						
·						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal Pa					
Paper No(s)/Mail Date <u>10/31/07</u> . 6) Other:						

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DETAILED ACTION

Response to Amendment

1. This communication is responsive to the amendment filed on 08/08/07. Accordingly, claims 16-26 have been added and claims 1-26 are currently pending in this application.

Response to Arguments

Applicant's arguments with respect to claims 1-16 have been considered but are 1. moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 – 11 and 13 – 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Rinne (US 2005/0185651 A1).

Regarding claims 1, 14 and 15, Rinne teaches a radio communication system (Fig. 3) comprising: a plurality of mobile stations (mobiles); and a base station (RNC) comprising: a packet classification unit (Fig. 6, QoS classifier 16) configured to classify packets received/transmitted from/to a plurality of mobile stations into a quantitative

guarantee type packet having a request value for communication quality (page 4, paragraph 68; differing QoS classes) or a relative guarantee type packet not having the request value for communication quality (page 4, paragraph 68); and a transmission order controller (packet scheduler 22 and QoS scheduler 10) configured to control a transmission order of the packets for every classified quantitative guarantee type packet and every classified relative guarantee type packet (page 5, paragraphs 80-82).

Regarding claim 2, Rinne teaches the base station of claim 1, wherein the transmission order controller gives priority to the quantitative guarantee type packet over the relative guarantee type packet, in the transmission order (page 5, paragraphs 76 and 83).

Regarding claim 3, Rinne teaches the base station of claim 1, wherein the transmission order controller controls the transmission order based on a quality of service class (page 4, paragraph 83; the QoS scheduler triggers the buffers in the order of QoS classification).

Regarding claim 4, Rinne teaches the base station of claim 1, wherein the transmission order controller controls the transmission order based on radio quality between the base station and the plurality of mobile stations (page 4, paragraph 68).

Regarding claim 5, Rinne teaches the base station of claim 1, wherein the transmission order controller controls a transmission order of a plurality of quantitative guarantee type packets having same request value, such that communication quality for the request value becomes same, among a plurality of mobile stations receiving/transmitting the quantitative guarantee type packets (page 6, paragraph 85).

Regarding claim 6, Rinne teaches the base station of claim 1, further comprising: a measurement unit (located within QoS scheduler) configured to measure communication quality for the request value (page 2, paragraph 22, further described on page 7, paragraph 106), wherein the transmission order controller compares the request value with a measured value by the measurement unit, and controls the transmission order based on a comparison result (page 2, paragraph 22, further described on page 7, paragraph 106).

Regarding claim 7, Rinne teaches the base station of claim 1, further comprising: a measurement unit configured to measure communication quality for the request value, wherein the packet classification unit restrains storing the quantitative guarantee type packet in a transmission buffer for storing the packets, when a measured value by the measurement unit is more than the request value (page 9, paragraphs 130-131).

Regarding claim 8, Rinne teaches the base station of claim 1, wherein the transmission order controller controls the transmission order such that a number of the quantitative guarantee type packets transmitted in unit time becomes equal to a number of packets satisfying the request value (page 7, paragraph 103).

Regarding claim 9, Rinne teaches the base station of claim 1, further comprising: a radio resource assignment unit (located within the scheduler 22, which is a part of the radio resource management RRM – page 5, paragraph 80) configured to assign to the packets radio resources for transmitting the packets, according to the transmission order (page 6, paragraph 85).

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Regarding claim 10, Rinne teaches the base station of claim 9, wherein the radio resource assignment unit assigns the radio resources to the quantitative guarantee type packet based on the request value (page 6, paragraph 85).

Regarding claim 11, Rinne teaches the base station of claim 9, wherein the radio resource assignment unit assigns remaining radio resources to the quantitative guarantee type packet existing in a transmission buffer for storing the packets, after assigning the radio resources to the quantitative guarantee type packet and the relative guarantee type packet (page 6, paragraph 85).

Regarding claim 13, Rinne teaches the base station of claim 1, further comprising: a determination unit (inherently exists for classifying the QoS classes) are configured to determine a quality of service class in a core network for a packet (page 4, paragraph 68), which has been received from a mobile station and is to be transmitted to the core network, based on whether the packet is the quantitative guarantee type packet or the relative guarantee type packet (page 4, paragraph 68).

Regarding claim 16, Rinne teaches the base station of claim 1, wherein the packet classification unit classifies the packet into a quantitative guarantee type packet having a request value for communication quality that is not a QoS class (page 4, paragraph 68).

Regarding claim 17, Rinne teaches the base station of claim 16, wherein the packet classification unit classifies the packets into a quantitative guarantee type packet having a request value for at least one of a specific quantity of at least one of a transfer speed, a transfer delay or jitter (page 4, paragraph 68; delay).

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85).

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Regarding claim 18, Rinne teaches the base station of claim 14, wherein the packet classification unit classifies the packet into a quantitative guarantee type packet having a request value for communication quality that is not a QoS class (page 4, paragraph 68).

Regarding claim 19, Rinne teaches the base station of claim 18, wherein the packet classification unit classifies the packets into a quantitative guarantee type packet having a request value for at least one of a specific quantity of at least one of a transfer speed, a transfer delay or jitter (page 4, paragraph 68; delay).

Regarding claim 20, Rinne teaches the method of claim 15, wherein the classifying comprises classifying a packet into the quantitative guarantee type packet having a request value for communication quality that is not a QoS class (page 4, paragraph 68). Regarding claim 21, Rinne teaches the base station of claim 1, wherein if radio resources remain after assignment to the quantitative guarantee type packet in accordance with the request value, the remaining radio resources are assigned to the relative guarantee type packets by the transmission order controller (page 4, paragraph

Regarding claim 22, Rinne teaches the base station of claim 21, wherein if radio resources still remain after assignment to the relative guarantee type packets, the further remaining radio resources are assigned to the remaining quantitative guarantee type packets (page 4, paragraph 85).

Regarding claim 23, Rinne teaches the base station of claim 14, wherein if radio resources remain after assignment to the quantitative guarantee type packet in

accordance with the request value, the remaining radio resources are assigned to the relative guarantee type packets by the transmission order controller (page 4, paragraph 85).

Regarding claim 24, Rinne teaches the base station of claim 23, wherein if radio resources still remain after assignment to the relative guarantee type packets, the further remaining radio resources are assigned to the remaining quantitative guarantee type packets (page 4, paragraph 85).

Regarding claim 25, Rinne teaches the method of claim 15, wherein if radio resources remain after assignment to the quantitative guarantee type packet in accordance with the request value, the remaining radio resources are assigned to the relative guarantee type packets (page 4, paragraph 85).

Regarding claim 26, Rinne teaches the method of claim 25, wherein if radio resources still remain after assigned to the relative guarantee type packets, the further remaining radio resources are assigned to the remaining quantitative guarantee type packets (page 4, paragraph 85).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rinne (US 2005/0185651 A1).

Regarding claim 12, Rinne teaches the base station of claim 1, further comprising: a request value attached to a packet arrived from a core network, based on a quality of service class for the packet in the core network (page 3, paragraph 30; further described on page 6, paragraph 90), wherein the packet classification unit classifies a packet having the request value attached thereto into the quantitative guarantee type packet (page 4, paragraph 68), and classifies a packet not having a request value attached thereto into the relative guarantee type packet (page 4, paragraph 68).

Rinne fails to explicitly disclose an attaching unit to attach the request value.

However, Rinne does disclose a packet with an attached request value arrived from a core network.

In view of this, it would have been obvious to one skilled in the art to include an attaching unit for attaching the request value, in order to affix a particular request value to the packet.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rhonda Murphy whose telephone number is (571) 272-3185. The examiner can normally be reached on Monday - Friday 9:00 - 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rhonda Murphy Examiner Art Unit 2616

RM

HUY Ď. VU

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